

AFPC

Sample

2010-06

Grade

11-52-0

	AOAC Ref.	Method #	# of Labs.	Grand Median	Std Dev
AMMONIACAL NITROGEN					
Ammoniacal Nitrogen, MgO distillation	920.03	001.10	3	11.06	0.84
Ammoniacal Nitrogen, Other		001.99	13	11.32	0.10
Method Group 001.XX PCT			14	11.31	0.14
Nitrogen from Urea, Urease(as N)	959.03	005.00	1	11.47	0.00
TOTAL NITROGEN					
Total Nitrogen, Modified Comprehensive	978.02	010.11	2	11.41	0.01
Total Nitrogen, Salicylic	955.04d	010.12	1	11.28	0.00
Total Nitrogen, Combustion	993.13	010.60	27	11.29	0.10
Total Nitrogen, Other		010.99	4	11.33	0.15
Method Group 010.XX PCT			33	11.30	0.11
TOTAL PHOSPHATE					
Total Phosphate, Gravimetric Quimociac		020.10	3	52.75	0.94
Total Phosphate, Spectrometric	978.02	020.20	23	53.13	0.29
Total Phosphate, Alka. Quimociac	955.04d	020.30	1	51.59	0.00
Total Phosphate, ICP, Lithium	970.02	020.50	1	53.59	0.00
Total Phosphate, Other	993.13	020.99	3	52.64	0.34
Method Group 020.XX PCT			27	53.03	0.54
INSOLUBLE PHOSPHATE					
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	15	0.56	0.14
Insoluble Phosphate, Alka. Quimociac	963.03C(c)	030.30	1	0.58	0.00
Insoluble Phosphate, Automated	978.01	030.40	1	0.57	0.00
Insoluble Phosphate, ICP		030.50	1	0.46	0.00
Insoluble Phosphate, Other		030.99	2	0.11	0.00
Method Group 030.XX PCT			19	0.53	0.16
INDIRECT AVAILABLE PHOSPHATE					
Indirect Available Phosphate, Spectrometric	960.02	040.20	14	52.56	0.22
Indirect Available Phosphate, ICP		040.50	1	53.00	0.00

Indirect Available Phosphate, Other		040.99	1	52.90	0.00
Method Group 040.XX PCT			15	52.60	0.31

DIRECT AVAILABLE PHOSPHATE

Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	4	52.54	0.25
Direct Available Phosphate, Spectrometric	960.03D	041.20	1	52.97	0.00
Direct Available Phosphate, Automated	978.01	041.40	5	52.53	0.06
Direct Available Phosphate, ICP		041.50	5	51.70	0.79
Direct Available Phosphate, EDTA Extract	993.01	041.60	5	51.79	0.59
Direct Available Phosphate, Other		041.99	2	52.39	0.33
Method Group 041.XX PCT			21	52.53	0.76

WATER SOLUBLE PHOSPHATE

Water Soluble Phosphate, Spectrometric	970.01	048.20	16	47.99	0.38
Water Soluble Phosphate, Alka. Quimociac	964.04	048.30	1	47.74	0.00
Water Soluble Phosphate, Other		048.99	3	48.27	0.15
Method Group 048.XX PCT			18	48.04	0.43

SOLUBLE POTASH AS K₂O

Soluble Potash, ICP(Oxalate)		050.50	2	0.19	0.00
Soluble Potash, ICP(Citrate)		050.51	1	0.20	0.00
Soluble Potash, Flame Photometric(Oxalate)	983.02B(a)	050.60	1	0.12	0.00
Soluble Potash, Other		050.99	7	0.21	0.08
Method Group 050.XX PCT			10	0.19	0.03

FREE WATER

Free Water, Vacuum Oven	965.08B	060.00	21	0.53	0.18
Free Water, Vacuum Desiccate	965.08A	060.10	2	0.47	0.04
Method Group 060.XX PCT			20	0.52	0.18

ACID SOLUBLE CALCIUM AS CaO

Acid Soluble Calcium, ICP		101.30	17	0.28	0.02
Method Group 101.XX PCT			17	0.28	0.02

ACID SOLUBLE MAGNESIUM AS MgO

Acid Soluble Magnesium, Atomic Absorption	984.01	121.00	1	0.74	0.00
Acid Soluble Magnesium, ICP		121.30	17	1.04	0.04
Method Group 121.XX PCT			17	1.03	0.05

WATER SOLUBLE MAGNESIUM

Water Soluble Magnesium, Atomic Absorption	965.09	131.00	1	0.16	0.00
Method Group 131.XX PCT			1	0.16	0.00

SULFATE SULFUR (S)

Sulfur, Gravimetric	980.02(a)	144.01	4	1.71	0.04
Sulfur, Spectrometric		144.70	3	1.65	0.17
Sulfur, Other		144.99	8	1.61	0.04
Method Group 144.XX PCT			13	1.63	0.06

TOTAL SULFUR (S)

Sulfur, Other		145.99	5	1.57	0.07
Method Group 145.XX PCT			5	1.57	0.08

TOTAL ARSENIC

Total Arsenic, ICP	980.02(b)	151.02	8	11	0.9
Method Group 151.XX PPM			8	11	1.1

ACID SOLUBLE BORON

Acid Soluble Boron, Spectrometric	982.02	165.00	1	844	0.0
Acid Soluble Boron, Other		165.99	2	36	0.9
Method Group 165.XX PPM			3	37	367.5

TOTAL CADMIUM

Total Cadmium, Atomic Absorbtion		181.00	2	4	0.6
Total Cadmium, ICP		181.30	7	3	0.2
Total Cadmium, Other		181.99	1	3	0.0
Method Group 181.XX PPM			9	3	0.2

ALUMINUM AS Al₂O₃

ICP, %			15	1.67	0.05
Water Soluble Chlorine, Other, %		190.99	2	1.41	0.21
Method Group 190.XX PCT			16	1.67	0.05

TOTAL CHROMIUM

Total Chromium, Atomic Absorbtion		191.00	1	73	0.0
Total Chromium, ICP		191.30	10	86	2.0
Total Chromium, Other		191.99	1	84	0.0
Method Group 191.XX PPM			12	85	3.2

ACID SOLUBLE COBALT

Acid Soluble Cobalt, ICP		202.30	7	3	0.0
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Acid Soluble Cobalt, Other	202.99	1	3	0.0
Method Group 202.XX PPM		8	3	0.1

ACID SOLUBLE COPPER

Acid Soluble Copper, Atomic Absorption	975.01 221.00	2	1	0.1
Acid Soluble Copper, ICP	221.30	4	2	4.1
Acid Soluble Copper, Other	221.99	1	0	0.0
Method Group 221.XX PPM		5	2	1.1

ACID SOLUBLE IRON AS Fe₂O₃

Acid Soluble Iron, ICP	241.30	17	1.29	0.04
Method Group 241.XX PCT		17	1.29	0.05

TOTAL LEAD

Total Lead, ICP	251.30	4	1	0.0
Total Lead, Other	251.99	1	1	0.0
Method Group 251.XX PPM		5	1	0.0

ACID SOLUBLE MANGANESE

Acid Soluble Manganese, ICP	972.02a 261.30	5	370	20.5
Acid Soluble Manganese, Other	261.99	5	367	15.3
Method Group 261.XX PPM		10	368	24.7

TOTAL MOLYBDENUM

Total Molybdenum, ICP	289.30	9	15	0.0
Total Molybdenum, Other	289.99	1	15	0.0
Method Group 289.XX PPM		10	15	0.1

TOTAL NICKEL

Total Nickel, ICP	291.30	9	13	0.5
Total Nickel, Other	291.99	1	15	0.0
Method Group 291.XX PPM		10	13	0.8

SODIUM AS Na₂O

Sodium, Atomic Absorption	983.04 311.00	1	0.26	0.00
Sodium, Flame Photometric	974.01 311.30	1	0.18	0.00
Sodium, Other	311.99	9	0.22	0.03
Method Group 311.XX PCT		10	0.22	0.04

ACID SOLUBLE ZINC

Acid Soluble Zinc, ICP	321.30	5	81.5	4.3
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Acid Soluble Zinc, Other	321.99	2	79.8	0.6
Method Group 321.XX %		7	80.5	3.7
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FLUORIDE				
Volumetric	325.10	14	1.77	0.06
Distilled/Electrode	325.99	4	1.76	0.27
Method Group 325.XX PCT		17	1.77	0.07
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